



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 30, 2019

Susan Stracquatano  
Agent  
Arborjet, Inc.  
c/o Delta Analytical Corp.  
12510 Prosperity Drive, Suite 160  
Silver Spring, MD 20904

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Acceptable Addition of Previously Omitted Application Method Identical to Method Registered for Use on the Same Varieties of Plants.

Product Name: PHOSPHO-jet  
EPA Registration Number: 74578-3  
Application Date: 04/19/2019  
OPP Decision Number: 550223

Dear Ms. Stracquatano:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Page 2 of 2  
EPA Reg. No. 74578-3  
OPP Decision No. 550223

If you have any questions, please contact Anna O'Neil of my team by phone at (703) 347-8274 or via email at [oneil.anna@epa.gov](mailto:oneil.anna@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive style with a large, stylized initial 'A'.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

**NOTIFICATION**

74578-3

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/30/2019



**PHOSPHO-jet**

[Alternate Brand Name: Eco-1 PHOS]

[For Use Against Sudden Oak Death] [in California]  
[Systemic Fungicide] [Arboriculture in Motion] [Diverse Pest Control]  
[Systemic Fungicide for Micro-Infusion]  
[Plant Resistance Activator]

Systemic fungicide for the effective control of various plant diseases including black spot or scab in apple, root rot in Avocado, Bud Rot and Nut Fall in Coconut, Root Rot in Citrus and Cucurbits, Downy Mildew in Cucurbits, Grape, Lettuce, and Onion, Anthracnose in Mango, Root and Heart Rot in Pineapple, Late Blight in Potato, Root and Collar Rot in Stonefruit, Leather Rot and Phytophthora diseases in Strawberry, Late Blight in Tomato, Downy Mildew, Phytophthora & Pythium in Ornamentals, Interiorscapes & Bedding Plants, Phytophthora and Fusarium in Conifers, Pythium in Turf, and Phytophthora and Pythium diseases associated with Stem and Canker blight (Sudden Oak Death) and General Beech Decline.

**Active Ingredients:**

Mono- and di-potassium salts of Phosphorous Acid\* .....45.8%

**Other Ingredients:** ..... 54.2%

**Total:** ..... 100.0%

\*Contains 5.17 lbs/gallon of the active ingredients, mono- and di-potassium salts of Phosphorous Acid. Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Consult [booklet] or [insert] for First Aid & Precautionary Statements

EPA Registration No. 74578-3

EPA Est. No. 74578-MA-001

Arborjet, Inc.  
99 Blueberry Hill Rd., Woburn, MA 01801  
Phone: 781-935-9070  
Fax: 781-935-9080

Net Contents:

[Lot] or Batch No.:  
[Date of Manufacture:]

## AGRICULTURAL USE

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. Hotline Number: National Poison Control, 1-800-222-1222	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, mixers, loaders, and other handlers must wear:

- Protective eyewear
- Long pants and long-sleeved shirt
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for maintaining/cleaning personal protective equipment (PPE). If no such instructions for washables exist, use hot water and detergent. Keep and wash PPE separately from other laundry. When handlers use closed systems, aircraft or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

For Terrestrial Use: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
Read entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the state or tribal agency responsible for pesticide registration.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours, unless wearing the appropriate PPE.

PPE required for early entry to treated areas that are permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soils or water, is: coveralls worn over short-sleeved shirt and short pants, waterproof gloves, shoes plus socks and protective eyewear.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

## CHEMIGATION

Use of PHOSPHO-JET® systemic fungicide through chemigation is not permitted in California.

Apply this product only through center pivot, solid set or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### SPRINKLER AND DRIP (TRICKLE) IRRIGATION SYSTEMS:

The irrigation system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**(Sprinkler Chemigation Only):** Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply PHOSPHO-JET® systemic fungicide continuously for the duration of the water application. After treatment with PHOSPHO-JET® systemic fungicide has been completed, avoid further irrigation of the treated area until foliage is dry or for 24 to 48 hours.

#### GENERAL APPLICATION INSTRUCTIONS

Apply PHOSPHO-JET® systemic fungicide by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application, bare root dip and tree injection.

For foliar sprays, apply PHOSPHO-JET® systemic fungicide with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wetness, but avoid run-off. This product does not have a pre-harvest interval (PHI). Harvest when dry.

When using PHOSPHO-JET® systemic fungicide with Pentra-Bark™ adhere to all applicable label directions. Only use Pentra-Bark™ with basal bark or trunk spray applications.

#### MIXING INSTRUCTIONS

1. Fill the spray tank with ¼ to ½ of the volume of water required before adding PHOSPHO-JET® systemic fungicide.
2. Add PHOSPHO-JET® systemic fungicide slowly to the tank and agitate by mechanical or hydraulic means.
3. Continue agitating as tank fills with water to the desired volume.
4. Maintain agitation during application

#### INJECTION PROCEDURES

##### **General Guidelines:**

Measure the tree **diameter** at chest height (54" from ground) in inches to find the Diameter at Breast Height (DBH). If measuring circumference, divide this number by three to determine Diameter at Breast Height (DBH).

Locate drill holes low in tree, generally in or near the trunk flare, every 6" around the circumference of the tree. Do not inject into areas of obvious decay, canker or mechanical injury on the tree trunk.

##### **Basic Arborjet Injection Procedures:**

Drill holes 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) in diameter (for #4 Arborplug™) into live sapwood to a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle into the trunk uniformly around the tree circumference, using a sharp, clean drill bit. Initially apply no pressure to the drill; the bit will naturally cut through the bark. It will stop penetrating when it meets the harder sapwood. Next apply pressure to the drill to cut 5/8" to 2" into the sapwood.

Insert an Arborplug™, and tap in using the set tool and mallet. Use the #3 (9/32" d) or #4 (3/8" d) Arborplug™ in hardwoods; in conifers, use the #4 Arborplug™. Using the injection needle, pierce the internal septum to start the injection process. Shut off and remove the injection needle upon completion.

##### **Resinous Conifers**

In resinous conifers, such as pine and spruce insert the injection needle and start liquid flow immediately after inserting the Arborplug™ into the sapwood. A delay may reduce uptake due to resin flow. For trees exhibiting rapid resin flow (in spring during needle expansion), a deeper injection channel of 2" may assist in uptake.

##### **Monocots**

Inject into the trunk into lignified (hardened, woody) tissues typically within 2 to 3 ft. of the soil. Drill into the stem 4" deep using the 3/8" drill bit. Insert a #4 Arborplug™. Inject through the Arborplug™. Only one injection site is generally needed.

## WHEN TO TREAT / TIMING OF STEM INJECTION APPLICATIONS

**Tree Health and Growing Conditions:** Apply prior to bud break in spring. Alternatively, make applications to trees in full leaf after elongation or after leaf senescence (coloration or drop) in fall. Moist soil conditions and moderate temperatures (i.e., >40 and <90°F) favor transpiration and are optimal for injection uptake.

Best results are obtained when treatments are applied prior to infection. Treat trees early, when foliar symptoms (e.g., spot, blotch, blight) affect less than 10% of the canopy. Anticipate historical early season foliar infections by treating prior to bud break. For example, make application in late summer or early fall the year prior to infection.

*Phytophthora* root rot occurs most frequently in poorly drained and compacted soils. Susceptible species are at risk of infection following heavy precipitation or irrigation. Trees growing in low lying areas are also at risk of disease. Treat as early as possible in the infection cycle for best tree response.

For optimal uptake, apply when soil is moist, soil temperatures are above 40°F, ambient temperatures are between 40° to 90°F, and during the 24 hour period when transpiration is greatest, typically before 2:00 PM. Applications to drought or heat stressed trees may result in injury to tree tissue, poor treatment and subsequent control. Watering the trees prior to injection may enhance the uptake of PHOSPHO-JET®.

## GENERAL TRUNK INJECTION APPLICATION INSTRUCTIONS

This product is for use with the **ARBORJET TREE INJECTION SYSTEMS** or those systems that meet the label and dosage requirements. Follow manufacturer's directions for use.

### Micro-injection Applications for Use as Formulated (Non-Diluted)

PHOSPHO-JET® may be applied undiluted by micro-injection. The PHOSPHO-JET® dose rates are 3.5 to 7.0 milliliters (mLs) per inch DBH. Use the 3.5 mL rate in trees less than 12" in diameter. For trees 12 to 24" in diameter, apply 3.5 to 5.0 mLs per inch DBH. Use the higher rates of 5.0 to 7.0 mLs in trees greater than 24" in diameter.

### **Calculating Application Rate**

The dosages and number of application sites are based on tree diameter.

To determine the application/dose rate per tree:

Measure the tree diameter in inches at chest height (54" from ground) to find the Diameter at Breast Height (DBH). (If measuring tree circumference, divide circumference by 3 to obtain the DBH in inches.)

Calculate the number of injection sites by dividing the DBH in inches by 2.

Multiply the tree DBH by the dosage rate (5.0 mL per inch DBH) to calculate the total dose in milliliters per tree.

Divide the total dose by the number of injection sites to determine required dosage per injection site.

**Example:** For a tree with a DBH of 10 inches (or circumference of 30 inches) and 3.5 mL dosage rate:

DBH = 10" (circumference 30" ÷ 3 = 10")

Divide DBH of 10" by 2 = 5 injection sites.

Multiply DBH" of 10 by 3.5 mL = 35 mL total dose per tree.

Divide 35 mL by 5 injection sites = 7 mL per injection site to deliver the required dosage.

### Micro-injection Applications for Use as a Dilute Injection

**Ornamental, Forest, Conifers/ Narrow-Leaved Evergreens, and Crop Trees**

### **CALCULATING APPLICATION RATE AND MIXING INSTRUCTIONS**

To determine the application rate, refer to Table 1 for (1:3) dilution of PHOSPHO-JET®. Identify plant size by determining tree diameter in inches at breast height (DBH") measured at approximately 54" above the soil line. If measuring tree circumference divide by 3 to obtain the DBH".

In Table 1, 1 part PHOSPHO-JET® is diluted with 2 parts water. Determine the amount of PHOSPHO-JET® needed by multiplying inch of DBH by the rate used (3.5 mLs). For example, to treat a 10" tree, 35 mLs of PHOSPHO-JET® is required.

To prepare the injection solution, carefully add PHOSPHO-JET® to the tank. In the example of the 10" tree, add 35 mLs of PHOSPHO-JET®.

Next, fill the tank with the water to bring up to volume, close and agitate to mix. In the example of a 10" tree, 65 mLs water is added. Therefore, to treat a 10" DBH using the standard dilution, use 35 mL of PHOSPHO-JET® in 65 mLs water for a total injection volume of 100 mLs. Inject 20 mLs of the PHOSPHO-JET/water solution every 6" of trunk circumference as directed. Refer to Table 1 for specific dose applications for inch diameter of tree.

**TABLE 1** Tree Injection per inch Diameter and Dilution for Micro-injection Use. To prepare 100 mLs of solution, measure 35 mLs of PHOSPHO-JET® and add water to bring up to volume. Apply 20 mLs of solution per injection site every 6" of trunk circumference.

inch dbh	No. Injects	mLs PHOSPHO-JET	mLs water	mLs solution*
5 - 8	3 - 4	21 - 28	40 - 53	60 - 80
9 - 12	5 - 6	35 - 42	67 - 80	100 - 120
13 - 16	7 - 8	49 - 56	93 - 107	140 - 160
17 - 20	9 - 10	63 - 70	120 - 133	180 - 200
21 - 24	11 - 12	77 - 84	147 - 160	220 - 240
25 - 28	13 - 14	91 - 98	173 - 186	260 - 280
29 - 32	15 - 16	105 - 112	200 - 213	300 - 320
33 - 36	17 - 18	119 - 126	226 - 240	340 - 360
37 - 40	19 - 20	133 - 140	253 - 266	380 - 400
41 - 44	21 - 22	147 - 154	280 - 293	420 - 440
45 - 48+	23 - 24	161 - 168	306 - 320	460 - 480

\*mLs solution = total dose per tree

#### COMPATIBILITY

PHOSPHO-JET® systemic fungicide is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of PHOSPHO-JET® systemic fungicide with some foliar fertilizers and copper products are not always compatible or cause phytotoxicity to some plants. If these combinations or others have not been used previously, do not tank mix without first testing the compatibility of the tank mix. Do not apply tank mixture without first assessing its safety to the crop (phytotoxicity). Tank mix PHOSPHO-JET® systemic fungicide with fertilizers only if crop safety has been established and the PHOSPHO-JET® systemic fungicide use rates are followed.

Due to PHOSPHO-JET® systemic fungicide's acidic nature, do not use acidifying-type compatibility agents. If spray adjuvants are used test them before use to confirm compatibility with PHOSPHO-JET® systemic fungicide.

Use a jar test to confirm compatibility with PHOSPHO-JET® systemic fungicide. In a clean jar using the same water source that is normally used to fill spray tank, add the same proportions of each product and the appropriate quantity of water and mix thoroughly. Let stand for 3 minutes. If mixture remains in solution or is remixed readily the tank mix is compatible.

Spray the solution that results from the above compatibility test onto a few plants and inspect for visual effects of phytotoxicity (leaf burn) 3 to 7 days later.

## GENERAL HYDROPONIC APPLICATIONS

For use with plants grown in recirculating hydroponic systems.

Disease	Rate	Application Program
General root rots (Pythium and Phytophthora spp) and root diseases	1 to 2 quarts PHOSPHO-JET® in 5300 gallons of nutrient solution  OR  1 to 2 liters PHOSPHO-JET® in 20,000 liters of nutrient solution	Apply every 4 to 6 weeks in the summer and every 8 weeks in the fall. The application time interval may be modified depending on crop load, water quality, and disease pressure.

## AGRICULTURAL APPLICATIONS

### APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE

Use PHOSPHO-JET® for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, and quinces.

Disease	Application Method	Rate	Application Program
Apple black spot and scab (Venturia inaequalis)	Foliar spray	Apply 3 to 4 pints PHOSPHO-JET® per acre in 100 gallons water per acre  ½ gallon PHOSPHO-JET® per acre in 25 – 250 gallons water per acre  Or apply PHOSPHO-JET® at 0.5% (½ %) solution volume/volume concentration to foliage.  Example: spray volume of 50 gallons per acre, use 2 to 2.5 pints PHOSPHO-JET	Apply in combination with a mancozeb-containing product at 3 lbs. per acre. Apply at ¼- ½ inch green tip through first cover at 7 to 10 day intervals or according to forecasted infection events. Continue with PHOSPHO-JET® and Captan in the remaining applications. First application at open cluster. Last application fifth cover or fruit at 2" to 2 ½" diameter.  Total of 10 applications at 10 to 12 day intervals.  When conditions are conducive to a black spot outbreak, apply PHOSPHO-JET® immediately.  NOTE: After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
	Basal bark spray at bud swell or silver tip stage of growth in early spring	62.4 fl. oz. PHOSPHO-JET® + 62.4 fl. oz. of water + 3 fl. oz. Penetra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Penetra-Bark™ on the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present (treatment generally lasts 8 – 12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)

Root and collar rot (Phytophthora cactorum) Fire Blight (Erwinia amylovora)	Foliar spray	Apply at 1 ¼ to 2 ½ quarts PHOSPHO-JET® per acre with a maximum of 250 gallons water per acre. 2 ½ to 5 pints in 100 gallons of water per acre.	Thorough spray coverage of plant is required. Start applications when conditions favor disease development. Apply at one to two month intervals between treatments. Use the low rate on the shorter interval and the high rate on the longer interval. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.
	Basal bark spray treat in spring and fall for best results	62.4 fl. oz. PHOSPHO-JET + 62.4 fl. oz. of water + 3 fl. oz. Penetra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Penetra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8 to 12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control).

### ASPARAGUS

Use PHOSPHO-JET® for effective control of crown rot & asparagus spear slime disease in asparagus.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime (Phytophthora spp.)	Foliar spray	1 ¼ quarts PHOSPHO-JET® per acre in 25 gallons water to 2 ½ quarts PHOSPHO-JET® per acre in 250 gallons water.	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down (senesce). Established plantings, start applications when conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.

### AVOCADOS

Use PHOSPHO-JET® for effective control of root rot, trunk cankers and downy mildew disease in avocado.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora cinnamomi)	Tree injection	Skeletal trees 1st year: ¼ fl. oz. PHOSPHO-JET® per yard of canopy diameter.  Other situations: ¾ teaspoon PHOSPHO-JET® with ½ fl. oz. of water per yard of canopy diameter.	Inject trees at spring flush maturity. Repeat treatment in February or March. Locate drill holes in or near the trunk flare and space evenly around the circumference of the trunk. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET Air or Air hydraulic applicator to inject solution into the tree. For dilute (e.g., 1:30) solutions, use the Tree I.V. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter months, unless adequate soil moisture is available. Do not cut back the canopy of injected trees. Do

			not add any material, other than water, to PHOSPHO-JET® by trunk injection.
	Foliar spray	2 quarts PHOSPHO-JET® in 100 gallons of water per acre	Spray to run off at 2 to 2 ½ gallons of spray solution per adult tree. Start applications in spring, up to 4 applications a year at two-month intervals. Ensure thorough coverage.
Canker (Phytophthora citricola)	Trunk spray	1 ¼ to 2 ½ quarts mixed with 5 gallons of water with 6 fl. oz. of Penetra-Bark Penetrating Surfactant	Apply to trunk lesions using sufficient spray volume to completely wet the trunk and lesions. If lesions absent, apply to trunk from soil level up to two feet up trunk. If lesions present use higher rate.
Downy Mildew	Foliar spray	3 ¾ pints in 100 to 500 gallons of water	Spray to run-off, as required for disease control.

## BERRIES

Use PHOSPHO-JET® for effective control of root rot, general leaf and berry diseases such as those caused by Septoria spp., and downy mildew, and for suppression of Anthracnose spp., Fusicoccum canker, phomopsis canker, in bush and cane berries such as, but not limited to, bingleberries, blackberries, black satin berries, blueberries, boysenberries, Cherokee blackberries, Chesterberries, Cheyenne blackberries, coryberries, cranberries, darrowberries, dewberries, Dirksen thornless berries, elderberries, Himalayaberries, huckleberries, hullberries, Lavacaberries, loganberries, lowberries, lucretiaberrries, mammoth blackberries, marionberries, mulberries, nectarberries, olallieberries, Oregon evergreen berries, raspberries (red, black, hybrids/cultivars), and youngberries.

**Use PHOSPHO-JET® for effective control of root rot in bush and cane berries such as, but not limited to, blueberries, blackberries, loganberries, and raspberries (red, black, hybrids/cultivars).**

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora spp.)	Foliar spray	1 to 3 quarts PHOSPHO-JET® per 100 gallons of water per acre. Ensure foliage is completely wet.	New plantings: start application when new growth is 2 to 3 inches long. Established plantings start applications when cool wet conditions occur which favor disease. West of Rocky Mountains: Autumn applications, apply when conditions favor disease, repeat in 4 weeks. Spring applications, first application after bud break and repeat in 4 weeks. East of Rocky Mountains: First application spring post bud break (2 to 3 inches new growth) and repeat at 50 to 60 day intervals. Do not exceed 4 applications per season. For blueberries – First application in spring at pink bud and then on a regular schedule of application at two to three intervals.
General leaf and berry diseases such as those caused by Septoria spp and Anthracnose spp	Root Dip	Mix a 2.50% volume/volume solution (1 quart PHOSPHO-JET® per 10 gallons of water)	Apply as pre-plant dip to the roots for 2 to 3 minutes. Plant within 48 hours after dipping. Mix a fresh solution daily.  Apply with normal irrigation schedule. Do not apply more than 4 times per crop cycle.

	Chemigation Overhead	1 to 2 quarts PHOSPHO-JET® in 1000 gallons of water per acre	
	Low volume spray	2 to 3 quarts PHOSPHO-JET® in 100 gallons of water per acre	
Downy Mildew	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 20 to 100 gallons of water per acre	<p>Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 3 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p> <p>PHOSPHO-JET® is best when used in combination with conventional registered fungicides to increase the performance of the disease control program.</p>

### BRASSICAS

Use PHOSPHO-JET® for effective control of damping-off, root rot, bacterial, and fungal diseases, and downy mildew in brassicas such as, but not limited to, broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Disease	Application Method	Rate	Application Program
Root rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 to 100 gallons of water per acre	<p>Begin application after plants are established and conditions favor disease development.</p> <p>Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Pre-plant seedling Nursery	1 quart PHOSPHO-JET® in 100 gallons of water to nursery plants in seedling trays 1 to 7 days prior to planting	
	Transplant and Furrow Application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application	
Bacterial diseases	Chemigation Overhead	1 to 2 quarts PHOSPHO-JET® in 1000 gallons of water per acre	<p>Apply with normal irrigation schedule.</p> <p>Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle</p>
	Low volume spray	2 to 3 quarts PHOSPHO-JET® in 20 to 100 gallons of water per acre	<p>High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p>

Downy mildew (Peronospora parasitica)	Foliar spray	1 ¼ quarts to 2 ½ quarts PHOSPHO- JET® per acre in 25 to 250 gallons of water per acre.	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.  Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Diseases caused by Septoria, Collectotrichum and Alternaria	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 gallons of water per acre	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.

### CEREAL GRAINS

Apply PHOSPHO-JET® to crops such as, but not limited to, field corn, ornamental corn, sweet corn, Indian corn, wheat, rye, barley, oats, triticale, and sorghum (milo). Use PHOSPHO-JET® for effective control of damping-off and root rot diseases.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	1 ½ quarts to 2 quarts PHOSPHO-JET® per acre in 25 to 100 gallons of water	Corn: Apply at 14 day intervals from 4 leaf stage, as needed. Assure good coverage. Other grains: Apply at 14 to 21 day intervals, as needed. Assure good coverage.

### CITRUS- Mature trees

Use PHOSPHO-JET® for effective control of root rot and collar rot diseases in citrus.

Disease	Application Method	Rate	Application Program
Brown rot and root rot <i>Phytophthora</i> spp.	Foliar spray	2 ½ quarts PHOSPHO-JET® per acre in a maximum of 250 gallons of water	When conditions favor disease. Spray trees to run off ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees.
Root rot and collar rot ( <i>Phytophthora</i> spp. <i>nicotianae</i> and <i>Phytophthora citrophthora</i> )	Trunk spray	Mix 1 ¼ to 2 ½ quarts PHOSPHO-JET® in a minimum of 5 gallons of water with 1 to 3 fl. oz. of Penetra-Bark Penetrating Surfactant.	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high, use higher rate.
	Soil Spray	2 ½ to 4 quarts PHOSPHO-JET® per acre in a minimum 20 gallons per acre.	

### COCONUTS

Use PHOSPHO-JET® for effective control of bud rot and nut fall in coconuts.

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall ( <i>Phytophthora palmivora</i> )	Injection	Between 2 tsp. and 1 fl. oz. per tree	Dilute PHOSPHO-JET® with water to give final injection volume of 1 fl. oz. to 2 fl. oz. of water and PHOSPHO-JET®. Inject into the trunk or root system.

### COTTON

Use PHOSPHO-JET® for effective control of damping-off and root rot disease in cotton.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 to 50 gallons of water acre	Apply at crop emergence every 21 days or during wet conditions that favor pathogen development.
	Side dress at planting or in furrow	1 to 1 ½ quarts per acre	Apply at planting either in furrow, or side dress, can be applied with liquid row starter fertilizers with previous compatibility check.

## CUCURBITS

Use PHOSPHO-JET® for effective control of sudden wilt, gummy stem blight, downy mildew, Alternaria leaf blight, and bottom soft root complex, and for suppression of Anthracnose diseases in cucurbits grown in field situations such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp. balsam apple, balsam pear, bitter melon, and Chinese cucumber.

Disease	Application Method	Rate	Application Program
Sudden wilt – Root and fruit rot (Phytophthora spp.)	Foliar spray	1 to 3 quarts PHOSPHO-JET® per 100 gallons.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (Mycosphaerella melonis)			Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Downy mildew (Pseudo-peronospora cubensis)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.
Leaf diseases such as Anthracnose and Alternaria leaf blight	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 30 gallons of water per acre	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Bottom Soft Rot Complex	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in up to 100 gallons of water per acre.	Apply after fruit set and during bulking 3 during the growing season.

## CUCURBITS, TANK MIXTURES

For the effective control of downy mildew diseases, tank-mix PHOSPHO-JET® with a mancozeb-containing fungicide and apply to cucurbits.

Product	Disease	Rate Per Acre	Application Program
PHOSPHO-JET® + mancozeb-containing fungicide	Downy mildew	Light to medium foliage cover: Apply 1 ¼ to 2 quarts PHOSPHO-JET® per acre.  Heavy foliage cover: Apply 3 quarts PHOSPHO-JET® per acre + Label rate of mancozeb	Apply as a ground foliar spray the indicated quantity and dilution rates with water of both products.  For best results apply PHOSPHO-JET® as a tank mix with protectant fungicides such as mancozeb, copper oxychloride, etc., to ensure both pre- and post-infection activity.

## FRUITING VEGETABLES

Use PHOSPHO-JET® for effective control of damping-off, root rot, gummy stem blight, bacterial diseases, downy mildew, and Alternaria leaf blight, and for suppression of Anthracnose on fruiting vegetables such as but not limited to eggplant, tomatoes, tomatillos, peppers, bell, chili, cooking, pimento, and sweet.

Disease	Application Method	Rate	Application Program
Eggplant: Pythium and Phytophthora spp., and Gummy stem blight (Mycosphaerella melonis)	Foliar spray	Apply 1 ¼ quarts PHOSPHO-JET® per acre in 40 gallons of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.  Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent.  Do not exceed a total of 6 applications per season.
Peppers: Late blight and root rot (Phytophthora infestans and Phytophthora spp.)		1 ½ to 2 quarts PHOSPHO-JET® per acre in 25 to 100 gallons of water	First application at transplant or when direct seeded crops are at 2 – 4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot (Phytophthora infestans and Phytophthora spp.)		1 ½ to 2 quarts PHOSPHO-JET® per acre in 25 to 100 gallons of water	First application at transplant or when direct seeded crops are at 2 – 4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Root Rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 gallons of water per acre	Begin application after plants are established and conditions favor disease development.
Bacterial diseases	Pre-plant seedling Nursery treatment	1 quart PHOSPHO-JET® in 100 gallons of water to nursery plants in seedling trays 1 to 7 days prior to out planting	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.  For control of bacterial leaf spot of tomatoes, apply the high rate of PHOSPHO-JET® with registered bactericides.
	Transplant and furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application	
	Chemigation Overhead	1 to 2 quarts PHOSPHO-JET® in 1000 gallons of water per acre	
Downy mildew	Foliar spray	1 to 2 quarts PHOSPHO-JET in 30 gallons of water per acre	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.

Leaf diseases such as Anthracnose and Alternaria leaf blight	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 gallons of water per acre	<p>Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p>
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## GRAPES

Use PHOSPHO-JET® for effective control of downy mildew and black rot in grapes.

Disease	Application Method	Rate	Application Program
Downy mildew (Plasmopara viticola)	Foliar spray	Early season small canopy,  1 ¼ quarts PHOSPHO-JET® per acre in up to 100 gallons of water	It is essential that the rate of PHOSPHO-JET® be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply PHOSPHO-JET® at times of high disease risk, especially between the time that conditions are conducive to downy mildew and black rot infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of PHOSPHO-JET® is applied to match vine growth and water volume, particularly from mid-season onwards, and especially where grapes are grown on root stock. Use rotation fungicides that also control black rot in combination with PHOSPHO-JET, such as Captan, Copper, Mancozeb and others.
Black Rot		Late season/large canopy,  2 to 2 ½ quarts PHOSPHO-JET® per acre in up to 100 gallons water	
Phytophthora and Pythium root rots and suppression of Armillaria	Foliar Spray	1 ½ to 2 quarts PHOSPHO-JET® in 50 to 100 gallons of water per acre	<p>Apply to vines that have a stressed root system that can lead to root rots. Mitigating factors such as nematode pressure, water logging, and compaction contribute to vine declines.</p> <p>Table Grapes: Begin application in the spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals until flowering. Resume applications in the fall after harvest. Do not apply more than 4 times per crop cycle.</p> <p>Wine and Raisin Grapes: Begin applications in the spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals through flowering. Do not apply more than 4 times per crop cycle.</p>

Downy mildew	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 50 gallons of water per acre PHOSPHO-JET® is most effectively applied to control downy mildew when tank is mixed with other registered fungicides.	Apply at bud break with additional applications at 7 to 10 day intervals in a rotational program with other registered fungicides. Use higher rate and volume based on disease severity and density of canopy. Do not apply more than 6 times per crop cycle.
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### GRAPES, TANK MIXTURES

For the effective control of downy mildew diseases, tank-mix PHOSPHO-JET® with a mancozeb-containing fungicide and apply to grapes.

Disease	Application Method	Rate	Application Program
Downy mildew and Black rot	Foliar spray	Early season small canopy, 1 ¼ quarts PHOSPHO-JET® per acre in 50 to 100 gallons water  Late season/large canopy, 2 to 2 ½ quarts PHOSPHO-JET® per acre in up to 100 gallons water + Label rate of Mancozeb	Apply as a foliar spray the indicated quantity and dilution rates with water of both products. For best results apply PHOSPHO-JET® as a tank mix with protectant fungicides such as Mancozeb, copper oxychloride, etc., to ensure both pre- and post-infection activity.

### HERBS AND SPICES

Use PHOSPHO-JET® for effective control of Downy mildew, Phytophthora spp and Pythium spp diseases of Herbs and Spices grown in fields, nurseries, and greenhouses. Apply PHOSPHO-JET® to plants such as, but not limited to, Anise, Balm, Basil, Chamomile, Caraway, Catnip, Celery, Chives, Coriander, Cumin, Curry Leaf, Dill, Fennel, Marjoram, Mint, Nasturium, Rosemary, Sage, Savory, Sweet Bay, Tarragon, Thyme, and Wintergreen. Make applications before disease development and in conjunction with good agricultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray	1 ¼ to 2 ½ quarts PHOSPHO-JET® per 100 gallons of water OR ½ to 1 1/8 fl. oz. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.

Phytophthora spp and Pythium spp	Foliar spray	1 to 2 quarts PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note do not apply more than 500 gallons of spray solution per acre.
	Soil drench	6 1/4 to 12 3/4 fl. oz. PHOSPHO-JET® per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

### HOPS

Use PHOSPHO-JET® systemic fungicide for effective control of downy mildew in hops.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only.	1 to 3 quarts PHOSPHO-JET® per 100 gallons of water per acre	conditions favor disease, apply when A. Shoots are ½ to 1 foot long. B. Post-training when vines are 6 feet high. C. 21 days post-application (B) D. During bloom

### LEAFY VEGETABLES

Use PHOSPHO-JET® for effective control of root rot, damping off, downy mildew, and other fungal diseases and for suppression of Anthracnose in leafy vegetables such as but not limited to: amaranth, arugula, cardoon, celery, chervil, corn salad, endive, fennel, lettuce, parsley, radicchio, rhubarb, spinach and Swiss Chard.

Disease	Application Method	Rate	Application Program
Downy mildew (Bremia lactucae)	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 30 gallons of water per acre	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle. Ensure spray coverage is adequate to wet the whole plant.
Root rots and damping off (Phytophthora spp and Pythium spp)	Foliar spray	Apply 1 to 2 quarts PHOSPHO-JET® in 40 gallons of water per acre	Begin application after plants are established and conditions favor disease development.
	Pre-plant nursery application	1 quart PHOSPHO-JET® in 100 gallons of water to nursery plants in seedling trays 1 to 7 days prior to out planting	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.

	Chemigation Overhead	Apply 1 to 2 quarts PHOSPHO-JET® in 1000 gallons of water per acre	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
	Chemigation Low Volume	Apply 1 to 2 quarts PHOSPHO-JET® in a minimum of 100 gallons of water per acre	Apply with normal irrigation schedule. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.
	Transplant and Furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Leaf diseases such as Anthracnose ( <i>Collectotrichum</i> spp), leaf blights ( <i>Septoria</i> and <i>Cercospora</i> spp), and bacterial rots ( <i>Erwinia</i> spp)	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 30 gallons of water per acre	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.

## LEGUMES

Use PHOSPHO-JET® for effective control of damping-off, root rot, Fusarium, Rhizoctonia, downy mildew, and other fungal diseases, and for suppression of Anthracnose in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto beans, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	1 ½ to 2 ½ quarts PHOSPHO-JET® per acre in 25 to 250 gallons of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Fusarium and Rhizoctonia	Pre-plant nursery application	1 quart PHOSPHO-JET® in 100 gallons of water to nursery plants in seedling trays 1 to 7 days prior to out planting.	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.
	Transplant and furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.

Downy mildew	Foliar spray	1 to 3 quarts PHOSPHO-JET® in 30 gallons of water per acre	<p>Lower Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>Higher Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
Leaf disease such as Anthracnose ( <i>Collectotrichum</i> spp), leaf blights ( <i>Septoria</i> and <i>Cercospora</i> spp), and bacterial rots ( <i>Erwinia</i> spp)	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 30 gallons of water per acre	<p>Low Disease Pressure: Apply lower rate at the first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p>

### MANGOS

Use PHOSPHO-JET® for effective control of suppression of Anthracnose in mangos.

Disease	Application Method	Rate	Application Program
Anthracnose ( <i>Colletotrichum gloeosporoides</i> )	Foliar spray	3 to 4 pints. PHOSPHO-JET® per 100 gallon of water	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of run-off.

### NONGRASS ANIMAL FEED

Use PHOSPHO-JET® for effective control of damping-off and root rot diseases in forage crops such as, but not limited to, alfalfa, clover, and vetch.

Disease	Application Method	Rate	Application Program
Phytophthora and <i>Pythium</i> spp.	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 25 to 100 gallons of water per acre	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

**OKRA, COFFEE, PAPAYA and PERSIMMON**

Use PHOSPHO-JET® for effective control of damping-off, root rot, downy mildew, and other bacterial and leaf diseases, and for suppression of Anthracnose diseases in coffee, okra, papaya, and persimmon.

Disease	Application Method	Rate	Application Program	
Phytophthora and Pythium spp	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 25 to 250 gallons of water per acre	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.	
Bacterial and leaf diseases such as coffee berry disease, Anthracnose (Collectotrichum spp), and various leaf spots (Septoria and Cercospora spp)	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 25 to 100 gallons of water per acre	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.	
	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 25 to 100 gallons of water per acre	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.	
	Root dip	Mix a 0.25% volume/volume solution (1/3 fl. oz. PHOSPHO-JET® with 1 gallon of water	Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within. Mix a fresh solution daily.	
	Chemigation Overhead		2 to 3 quarts PHOSPHO-JET® in 1000 gallons of water per acre	Apply with normal irrigation schedule  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.
			2 to 4 quarts PHOSPHO-JET® in 100 gallons of water per acre	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Transplant and furrow application		3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application		
Downy mildew	Foliar spray	1 to 3 quarts PHOSPHO-JET® in up to 100 gallons of water per acre	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 week intervals. Do not apply more than 6 times per crop cycle.	

Pseudomonas garcae	Foliar spray	Mix a 0.50% volume/volume solution (2 quarts PHOSPHO-JET® per 100 gallons of water)	Apply prior to onset of disease. Apply spray to saturation or runoff.
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**ONIONS, GARLIC, LEEKS AND SHALLOTS**

Use PHOSPHO-JET® for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew (Peronospora destructor)	Foliar spray	2 quarts PHOSPHO-JET® in 100 gallons water per acre	As a regular preventative control program or when disease first appears.

**ONIONS, GARLIC AND SHALLOTS, TANK MIXTURES**

For the effective control of downy mildew diseases, tank-mix PHOSPHO-JET® with a mancozeb-containing fungicide and apply to onions, garlic and shallots.

Disease	Application Method	Rate	Application Program
PHOSPHO-JET® + Mancozeb-containing fungicide	Downy mildew	2 quarts PHOSPHO-JET® in 100 gallons water per acre + Label rate of Mancozeb	Apply as a foliar spray the indicated quantity and dilution rates with water of both products.  For best results, apply PHOSPHO-JET® as a tank mix with protectant fungicides such as Mancozeb to ensure both pre- and post-infection activity.

**PALMS (Including Coconut Palms)**

Use PHOSPHO-JET® for effective control of Fusarium oxysporum in palms.

Disease	Application Method	Rate	Application Program
Fusarium oxysporum	Injection	Between 4 tsp. and 2 fl. oz. of PHOSPHO-JET® per tree. Small canopy (6-12 ft. spread): 4 tsp (20 mLs)  Medium canopy (13-24 ft. spread): 1.3 fl. oz. (40 mLs)  Large canopy (> 24 ft. spread): 2 fl. oz. (60 mLs)	Inject into trunk, drilling 4" deep, 3 ft. above soil level. To protect new spear growth, apply 10-15 weeks prior to expected initiation of new growth.

**PEANUTS**

Use PHOSPHO-JET® for effective control of damping-off and root rot disease in peanuts and for suppression of Anthracnose and white mold complex in peanuts.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 25 to 250 gallons of water per acre	Apply at 14-day intervals, as necessary. Ensure thorough coverage.
Root rots, pod rots, damping off, wilt (Phytophthora and Pythium spp)	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 100 gallons water per acre	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Leaf and crown diseases, Anthracnose (Collectothricum)	Transplant and furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side/top dressing or shank application	
White mold	Foliar application	2 to 2 ½ quarts PHOSPHO-JET	Apply preventatively at disease on set or during times when potential pathogen infection can occur.

**PINEAPPLES**

Use PHOSPHO-JET® for effective control of Phytophthora root and heart rot diseases in pineapples.

Disease	Application Method	Rate	Application Program
Phytophthora root and heart rot (Phytophthora cinnamomi and parasitica spp.)	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 50 to 100 gallons of water per acre	Apply to tops, 14 days prior to harvest of planting material.
	Pre-plant dip	1 ¼ quarts PHOSPHO-JET® in 100 gallons water per acre	Will treat enough slips to plant one acre.
	Foliar spray	2 quarts PHOSPHO-JET® in 100 gallons water per acre	Established plantings when conditions favor disease. Apply at 90 day intervals. Ensure thorough coverage of plants.

## POTATOES, POST-HARVEST

Use PHOSPHO-JET® only on russet-skinned potatoes intended for processing for suppression of late blight (*Phytophthora infestans*), and pink rot (*Phytophthora erythroseptica*). Apply 16.5 fl. oz. of PHOSPHO-JET® per ton of tubers in one half gallon of water as a mist spray. For the best control, be sure the tubers are completely and evenly covered.

Disease	Application Method	Rate	Application Program
Potatoes, Post-harvest: late blight ( <i>Phytophthora infestans</i> ) and pink rot ( <i>Phytophthora erythroseptica</i> )	Spray on tubers	16.5 fl. oz. PHOSPHO-JET® in ½ gallon of water/ton of tubers	Apply only to russet-skinned potatoes intended for processing. For best results, be sure tubers are thoroughly and evenly covered.
Late blight ( <i>phytophthora infestans</i> ) and pink rot ( <i>Phytophthora erythroseptica</i> )	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 50 gallons of water per acre	<p>Begin application after plants are established and conditions favor disease development.</p> <p>Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.</p> <p>Late blight management using PHOSPHO-JET® requires the high application rate and is most effectively applied when tank mixed with other registered fungicides.</p>
	Seed piece spray	Mix a 15% volume/volume solution (0.3 quart PHOSPHO-JET® with 2 quarts of water). Treat 2 tons of tubers per 1 gallon of solution.	Treat seed pieces with a full coverage spray.

## ROOT AND TUBER VEGETABLES

Use PHOSPHO-JET® for effective control of foliar and root rot but not limited to ginseng, damping-off and root rot diseases in carrots, radishes and late blight disease and storage diseases such as pink rot and pythium leak in potatoes, sweet potatoes, and yams and other similar root and tuber crops

Disease	Application Method	Rate	Application Program
Ginseng: Foliar and root rot ( <i>Phytophthora cactorum</i> )	Foliar spray	2 ½ quarts PHOSPHO-JET® in 100 gallons of water per acre	In cool wet conditions that favor <i>Phytophthora</i> . Apply at 7 day intervals. Do not exceed a total of 8 applications per season.
Carrots: <i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 25 gallons to 250 gallons of water per acre	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak (Phytophthora erythroseptica and Pythium spp.)	In-furrow spray	2 to 5 quarts PHOSPHO-JET® in 10 gallons of water per acre	Apply in a band spray directly over top of potato seed just before row is closed.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp.)	Foliar spray	1 ¼ quarts PHOSPHO- JET® in 90 to 375 gallons of water per acre	Apply at 5 to 14 day intervals subject to disease incidence.
Downy mildew	Foliar spray	1 to 3 quarts PHOSPHO-JET® in 10 to 50 gallons of water per acre	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.

**STONE FRUIT**

Use PHOSPHO-JET® for effective control of root, collar rot and almond pruning wound, and various cherry canker diseases, and suppression of amrilliaria in stone fruit such as, but not limited to, apricots, sweet and tart cherries, nectarines, peaches, plums, and fresh prunes.

Disease	Application Method	Rate	Application Program
Root and collar rot (Phytophthora spp.)	Foliar spray	2 ½ quarts PHOSPHO-JET® in 250 gallons of water per acre	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. Treat in spring and fall for best results.
	Basal bark spray Apply in spring and fall.	62.4 fl. oz. PHOSPHO-JET® + 62.4 fl. oz. of water + 3.2 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	
Almond pruning – wound cankers (Phytophthora syringae)	Foliar spray  Paint wound with solution	1 ¼ to 2 ½ quarts PHOSPHO-JET® in 100 gallons of water per acre 50-50 solution of water and PHOSPHO-JET	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate. Or paint wounds with concentrated solution.
Suppression of Armillaria root rot (Armillaria luteobublina)	Basal bark spray	1 ½ to 2 quarts PHOSPHO-JET + 2 quarts water + 1% Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.

## STRAWBERRIES

Use PHOSPHO-JET® for effective control of leather rot, red stele and Phytophthora, foliar and bacterial disease in strawberries.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp (red steele, leather rot, and root rot)	Pre-planting dip	1 ¼ quarts PHOSPHO-JET® in 100 gallons water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	1 to 3 quarts PHOSPHO-JET® in 50 to 100 gallons water per acre  1 ¼ to 2 ½ quarts PHOSPHO-JET® in 90 to 200 gallons of water per acre (CA only)	Annual crops, first treatment 14 to 21 days post planting, repeat at 1 to 2 month intervals when disease is evident.  Perennial crops, first treatment during spring growth flush, repeat at 1 to 2 month intervals when disease is evident. For susceptible varieties use higher rates and shorter spray intervals.
Foliar fungal and bacterial diseases (Rhizopus and Xanthomonas) Red steele (Phytophthora fragariae)	Transplant and furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing or shank application	Grey mold and Anthracnose suppression using PHOSPHO-JET® requires use of high application rates and is most effective when tank mixed with other registered fungicides.
Leather rot (Phytophthora cactorum)	Foliar spray	1 to 3 quarts PHOSPHO-JET® in 50 to 100 gallons water per acre 1 ¼ to 2 ½ quarts PHOSPHO-JET® per acre in 90 to 200 gallons of water per acre in (CA only)	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher rates and shorter spray intervals.
Phytophthora spp	Dip	Mix a 0.25% volume/volume solution (1 quart PHOSPHO-JET® in 100 gallons of water)	Dip runners in the solution for 1 to 2 minutes. Plant within 48 hours. Mix a fresh solution daily.

## TREE NUTS

Use PHOSPHO-JET® for effective control of root and collar rot, scabs and almond pruning-wound canker disease in tree nuts such as, but not limited to, almonds, beech nuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, hickory nuts, macadamia nuts, pecans, pistachios, and walnuts. Prevention and control of 1,000 Canker Disease, *Geosmithia morbida* in Black and English Walnut, when used in a comprehensive spray program with an insecticides that control Walnut Twig Blight *Pityophthorus juglandis*.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot ( <i>Phytophthora</i> spp.)	Foliar spray	1 ¼ quarts PHOSPHO-JET® in 125 gallons of water per acre	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post-harvest
Other than macadamia nuts: Almond pruning – wound canker ( <i>Phytophthora syringae</i> )	Paint or spray	2 ½ quarts PHOSPHO-JET® in 100 gallons of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight ( <i>Phytophthora</i> spp.)	Foliar spray	3 ¾ quarts PHOSPHO-JET® in 250 gallons of water per acre	Apply when disease is first seen and reapply at 3 week intervals. Spray to the point of run-off.
Root rot, crown rot, trunk cankers, foliar blights ( <i>Phytophthora</i> and <i>Pythium</i> spp)	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 100 gallons of water per acre	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 3 month intervals. Do not apply more than 4 times per crop cycle.  High Disease Pressure: Apply higher rate at monthly intervals. Do not apply more than 4 times per crop cycle.
Foliar bacterial and fungal disease, Anthracnose ( <i>Collectotrichum</i> ), hull rot ( <i>Monilla</i> spp), flower diseases ( <i>Cladosporium</i> spp), <i>Alternaria</i> leaf spots ( <i>Alternaria</i> spp), and raceme blight ( <i>Phytophthora</i> ) in macadamia	Root Dip	Mix 0.5% volume/volume solution (2 quarts PHOSPHO-JET® in 100 gallons of water)	Dip roots in the solution for 30 seconds. Plant within 48 hours. Mix a fresh solution daily.
Pecan scab	Foliar spray	2 quarts PHOSPHO-JET® in 50 to 100 gallons of water per acre	Apply preventatively with other products shown to be effective against pecan scab.
Pruning wound, crown and trunk cankers ( <i>Phytophthora</i> spp)	Trunk spray	2 quarts PHOSPHO-JET® + 2 quarts of water + 1% Penetra-Bark Bark Penetrating Surfactant	Apply higher rate when lesions are present. Clean wound sites and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. Apply to the trunk from the soil line to 5 feet up the trunk. Apply one time in the Spring, Summer, and Fall.

Downy mildew	Foliar spray	1 to 2 quarts PHOSPHO-JET® in 20 to 100 gallons of water per acre	Lower Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
Tree cankers and suppression of Armillaria	Basal bark spray	1 ½ to 2 quarts PHOSPHO-JET® + 2 quarts water + 1% Pentra-Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application at or about at bud swell.
1,000 Cankers of Walnut, Geosmithia morbida on both Black and English Walnut	Foliar spray	2 to 2 ½ qt. PHOSPHO-JET® in 50 gallons of water per acre	Foliar spray every 60 days starting in early spring in combination with an insecticide that controls Walnut Twig Beetle, Pityphthorous juglandis during insect flight times. Maximum 6 times per year.
	Basal Bark spray	Spray apply 32 oz. PHOSPHO-JET® in 48 oz. water with 2 oz. Pentra-Bark Surfactant per 18" of tree DBH	Spray apply to tree trunk circumference from ground level to first scaffold limb or to 6 feet up tree trunk.

## TOBACCO

Use on all varieties, including, but not limited to, aromatic fire-cured, brightleaf ("flue-cured"), burley, dark, perique and shade.

Disease	Application Method	Rate	Application Program
Preventative and curative treatment for Damping off, Downy mildew, <i>Phytophthora</i> spp., Powdery mildew, Root rot and Stem diseases	Float beds	2-4 fl oz. in 100 gals. of float solution	Apply dilution to ensure thorough, uniform foliage and crop coverage. Apply at 14-21 day intervals depending upon disease pressure. Spray to runoff.
	Chemigation (drench, drip (trickle), micro irrigation (spaghetti systems), ebb and flow systems, pot plant nursery systems)	4-32 fl. oz in 30-100 gals. per acre	
	Hand-held sprayer	1 qt. in 100 gals. of water	

**SEED TREATMENT APPLICATIONS**

Use PHOSPHO-JET® for effective control of Phytophthora and Pythium diseases on agricultural crop seeds from crops listed elsewhere on this label. Do not use treated seed for food, feed, or oil. Dye used to color treated seed must be an EPA approved dye [refer to 40 CFR 153-155 (c)]. Seed treatment on agricultural establishment in hopper-box, planter box, or other seed treatment application at or immediately before planting is within the scope of WPS, while commercial treatment of seeds is not within the scope of WPS.

Disease	Application Method	Rate
Phytophthora, Pythium and Fusarium spp.	Can be applied at planting or in commercial seed treatment operations.	8 to 24 fl. oz. PHOSPHO-JET® per 100 lbs. of seed or 4 to 10 quarts PHOSPHO-JET® per ton of seed, depending on the size of the seeds to be treated.

**GRASS GROWN FOR SEED PRODUCTION**

Use PHOSPHO-JET® for effective control of damping-off and root rot diseases in turf grasses such as, but not limited to, Bermuda, fescue, bent, blue, rye, zoysia, buffalo, and poa annua.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET in 25 to 250 gallons of water to 2 quarts per acre	Apply at 14 to 21 day intervals, as necessary. Ensure thorough coverage.

## LANDSCAPE, GOLF COURSE, NURSERY, FORESTRY, AND PARK APPLICATIONS

Use PHOSPHO-JET® for effective control of Phytophthora, Pythium, suppression of Amrillaria and other diseases associated with Stem and Canker Blight, and phloem and xylem inhabiting cankers, such as Botryosphaeria, Nectria, Thyronectria, Cytospora, phomopsis, Hypoxylon, Seiridium canker, Sudden Oak Death, (Phytophthora ramorum), Beech Decline, general tree decline syndromes, for suppression of Anthracnose and Verticillium wilt on various shade trees in landscapes, nurseries, golf courses, forests, and parks. Apply PHOSPHO-JET® to trees such as, but not limited to, Ash, Aspen, Azalea, Bald Cypress, Beech, Black Gum, Black Locust, Birch, Buckeye, Catalpa, Cedar, Cherry (Stonefruits), Chestnut, Coffee Tree, Crab Apple, Cork Tree, Dogwood-All, Elder, Elm, Fir, Golden Raintree, Hazelnut, Hawthorne, Honey Locust, Juniper, Lilac, Linden, London Plane tree, Magnolia, Maples-All, Mock Orange, Pine, Oaks-All (Coastal, Live, Shreve, Black, Canyon), Olives, Ornamental Pear, Plum, Pyracantha, Red Bud, Smoke Tree, Sumac, Sweet Birch, Sweet Gum, Sycamore, Tulip Tree, Viburnum, Walnut, White Pine, White Cedar, Willow, Witch Hazel, Zelkova and various conifers in the landscape. Make applications before disease development and in conjunction with good agricultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury. When applying to do not overspray and use care to apply only to target plants.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp. and Phytophthora ramorum (Sudden Oak Death)	Injection	11.8 fl. oz. per 22 fl. oz. of water for injection, (350 mLs in 650 mLs water), apply 20 mLs solution per injection site; See Table 1 for specific size/rate instruction.  OR  For Tree I.V.: 1.1 fl. oz. in 32 fl. oz. (32.5 mLs in 942.5 mL water), apply 40 mLs of solution per injection site. Refer to Table 2 for specific tree size/rate instruction.	Calculate the amount of product required per tree by measuring tree DBH" measured 4 ½ ft. above soil level. For example, a 10" DBH tree will receive 100 to 200 mLs of injection solution (see Tables 1 & 2, resp.). Apply 1 injection per 6 inches of trunk. A 10" DBH tree, for example will receive 5 injection points around the trunk. Apply 20 to 40 mLs per site, depending on the dilution selected (see Tables 1 & 2). Locate drill holes in or near the trunk flare. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET® Air or Air hydraulic applicator to inject solution into the tree. For dilute (e.g., 1:30) solutions, use the Tree I.V.
	Basal bark spray (all other tree species) apply in spring and fall. Best for thin bark trees such as maples, lindens, sycamores, and dogwoods	62.4 fl. oz. PHOSPHO-JET® + 62.4 fl. oz. of water + 3 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. Treat in spring and fall for best results.

Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray (pines) Apply anytime active growth is observed.	1 gallon of PHOSPHO-JET® + 2 gallons of water + 4 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 5 to 6 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.
Fusarium subglutinans (Pine Pitch Canker) and Gnomonia platani (Sycamore Anthracnose)	Injection	20 to 35 mL per 10" DBH tree of PHOSPHO-JET® + sufficient water to bring volume up to 100 mLs; apply 20 mLs of solution per injection every 6" of tree circumference. Refer to Table 1 for specific tree size/rate instruction	Apply 1 injection per 6 inches of trunk. Locate drill holes low in tree, generally in or near the trunk flare. Drill holes 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) in diameter (for #4 Arborplug™) into live sapwood to a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle into the trunk uniformly around the tree circumference, using a sharp, clean drill bit.
Apple black spot and scab (Venturia inaequalis) and Anthracnose	Basal bark spray apply early spring at bud swell or silver tip stage of growth	62.4 fl. oz. PHOSPHO-JET + 62.4 fl. oz. of water + 3 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8 to 12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.) Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices. For severe infestation of anthracnose, make a fall (at leaf senescence) and spring (bud swell to green tip) application for large trees.
Various Tree Cankers	Basal Bark spray apply at green tip or spring bud break	48 fl. oz. PHOSPHO-JET® with 62.4 oz. of water and 1 fl. oz. of Pentra Bark surfactant	Apply early spring and repeat in fall prior to leaf senescence for severe canker infestations.
Fire blight and apple scab (Venturia inaequalis)	Foliar spray	1 ½ to 2 quarts PHOSPHO-JET® in 100 gallons of water	First application pre bloom (bud swell or silver tip stage). Application intervals: 7 days until end of bloom period. Apply spray to thoroughly wet all foliage.
Fire blight	Basal Bark Spray	Use 50/50 mixture PHOSPHO-JET® with water and 1% Pentra Bark	Apply at bud swell.
Suppression of Anthracnose	Foliar spray	2 quarts PHOSPHO-JET® in 100 gallons of water per acre	Apply at pre bloom (bud swell or green tip stage) with a supplemental application 14 days later with PHOSPHO-JET® or other fungicide compound with efficacy on Anthracnose.

Suppression of Anthracnose	Basal bark spray Apply early spring at bud swell until green tip stage of growth	62.4 fl. oz. PHOSPHO-JET® + 62.4 fl. oz. of water + 1.5 to 3.0 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attached by Anthracnose, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.
Suppression of Verticillium wilt	Foliar spray	2 quarts PHOSPHO-JET® in 100 gallons of water per acre	For trees previously identified with infections, apply first application pre-bloom. Repeat applications between 21 to 30 days.
Suppression of Verticillium wilt Suppression of Armillaria	Basal bark spray	1 ½ to 2 quarts PHOSPHO-JET® + 2 quarts of water + 2 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 24 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Verticillium wilt, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 24 inches DBH, make an early spring application.
Needle Cast	Foliar Spray	2 to 2 ½ quarts PHOSPHO-JET® sprayed to run off	Treat when symptoms first appear. Repeat application in 30 days.
1,000 of Walnut, Geosmithia morbida Foliar spray English and Black	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 50 gallons per acre or a 1% solution sprayed to run-off	Start spray program in spring and treat every 60 days in combination with insecticide program for control of Walnut Twig Beetle, Pityophthorous juglandis during times of insect flight.
	Basal Bark spray	Spray apply 32 oz. of PHOSPHO-JET® in 48 oz. water with 2 oz. Pentra Bark surfactant per 18 DBH inches of tree diameter	Spray trunk circumference from ground level to 6 feet up tree or to first scaffold limb to saturation runoff. Treat in spring leaf out and fall approaching leaf senesce. Use in combination with an effective insecticide program for Walnut Twig Beetle.

**TABLE 2** Dilution (1:30) for use with Tree I.V. for Sudden Oak Death. Apply 40 mLs of solution per injection site.

inch DBH	No. injects	mLs solution*
5 - 8	4	120 - 160
9 - 12	6	200 - 240
13 - 16	8	280 - 320
17 - 20	10	360 - 400
21 - 24	12	440 - 480
25 - 28	14	520 - 560
29 - 32	16	600 - 640
33 - 36	18	678 - 718
37 - 40	20	758 - 798
41 - 44	22	838 - 878
45 - 48+	24	918 - 958

\*To prepare 1000 mLs of solution, measure 32.5 mLs PHOSPHO-JET, add water to bring up to volume.

### ORNAMENTAL APPLICATIONS

Use PHOSPHO-JET® for effective control of Bacterial blight, Downy mildew, Phytophthora spp. and Pythium spp. Diseases and for suppression of Anthracnose and blights on Ornamentals in landscapes, nurseries, golf courses, parks, interiorscapes, and greenhouses. Apply PHOSPHO-JET® to plants such as, but not limited to, Aglaonema, Anthurium, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Dffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, field, landscape, and mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good agricultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid plant injury.

Disease	Application Method	Rate	Application Program
Bacterial blight (Xanthomonas campestris) pathovars: dieffenbachiae, fici hederiae, and syngonli	Foliar spray	2 to 4 pints PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.
Downy mildew	Foliar spray	1 ½ to 2 ½ PHOSPHO-JET® quarts in 100 gallons of water per acre	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per crop cycle. High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals.

Phytophthora spp., Phytophthora ramorum, and Pythium spp.	Foliar spray	1 to 2 quart PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	6 1/4 to 12 3/4 fl. oz. PHOSPHO-JET® per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1 to 2 pints PHOSPHO-JET® per cubic yard of soil	Just prior to potting, mix 1 to 2 pts. of PHOSPHO-JET® into each cubic yard of growing media. If disease pressure is high, apply foliar spray or soil drench.
	Bare rooted dipping of transplants	2 pints PHOSPHO- JET® per 100 gallons of water OR 2 tsp. PHOSPHO- JET® per gallon	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.
Suppression of Anthracnose	Foliar spray	2 to 2 ½ quarts PHOSPHO-JET® in 50 gallons of water per acre	Apply prior to onset of disease. Apply spray to saturation or runoff.
Black Spot Roses	Foliar spray	2 quarts per 100 gallons or 0.5% solution concentration	Apply when disease is present. Apply spray to run off.

## NURSERY AND BEDDING PLANTS

Use PHOSPHO-JET® for effective control of Downy mildew, Phytophthora spp. and Pythium spp. diseases of BEDDING PLANTS grown in landscapes, nurseries and golf courses, parks, interiorscapes, and greenhouses. Apply PHOSPHO-JET® to plants such as, but not limited to, Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvitae, Artemesia, Aster, Azaleas, Baby's Breath, Begonia, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothos, Chrysanthemum, Cissus, Coleus, Columbine, Cotoneaster, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly, Juniper, Lavender, Leather Fox Fern, Marigold, Monterey Pink, Pansy, Peperomia, Petunia, Philodendron, Phlox, Photinia, Pieris, Pinks, Pittosporum, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rosemary, Rhododendron, Salvia, Schefflera, Sedium, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, White Cedar, White Pine, Zinnia and Zygocactus. PHOSPHO-JET® may also be used for Vegetable Transplants grown in Greenhouse, Lath house, or Shade house sites. Make applications before disease development and in conjunction with good agricultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. When applying to indoor plants, do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Downy Mildew	Foliar Spray	1 ¼ to 2 ½ quarts PHOSPHO-JET® per 100 gallons of water OR 1/2 to 1 1/8 fl. oz. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Phytophthora spp. and Pythium spp.	Foliar spray	1 to 2 quarts PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. NOTE: Do not apply more than 500 gallons of spray solution per acre.
	Soil drench	6 1/4 to 12 3/4 fl. oz. PHOSPHO-JET® per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
Phytophthora spp.*	Foliar spray	2 quarts PHOSPHO-JET® per acre	Apply spray in 20 – 60 gallons per acre.
	Hand gun	2 quarts PHOSPHO-JET® per 100 gallons of water	Apply spray to thoroughly wet all foliage.

\*Lavender applications.

**CONIFERS IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS (INCLUDING CHRISTMAS TREES)**

Apply PHOSPHO-JET® in conjunction with good agricultural management practices for effective control of root rot (Phytophthora spp) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to CONIFERS that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
Phytophthora	Foliar spray	1 to 2 quarts PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1 to 2 quarts PHOSPHO-JET® per 100 gallons of water OR 2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	1 quart PHOSPHO-JET per 100 gallons of water OR 2 tsp. PHOSPHO-JET® per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray Apply any time active growth is observed.	1 gallon PHOSPHO-JET® + 2 gallons of water + 4 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line.
	Injection	20 to 35 mL per 10" DBH tree of PHOSPHO-JET® + sufficient water to bring volume up to 100 mLs; apply 20 mLs of solution per injection every 6" of tree circumference. Refer to Table 1 for specific tree size/rate instruction	Apply 1 injection per 6 inches of trunk. Locate drill holes low in tree, generally in or near the trunk flare. Drill holes 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) in diameter (for #4 Arborplug™) into live sapwood to a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle into the trunk uniformly around the tree circumference, using a sharp, clean drill bit.

Do not graze livestock in treated areas of conifer nurseries or plantations. Do not feed forage from treated areas of plantations and/or nurseries.

## TURF

Use PHOSPHO-JET® for the effective control of Rhizoctonia, Pythium and damping-off diseases, and for suppression of Anthracnose of turf grasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms. When conditions favor disease, begin preventive applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
Pythium	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® per 1000 sq. ft.	Apply indicated quantity of product in 1 to 2 gallons of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.
Suppression of Anthracnose	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® per 1000 sq. ft.	Apply indicated quantity of product in 2.5 gallons of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Apply every 14 to 21 days in a fungicide rotational program. Do not irrigate or mow treated areas until spray has completely dried.
Suppression of Pink Snow mold	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® in 2 gallons of water per 1000 sq. ft.	Apply when temperatures and conditions favor disease development and outbreak, or apply in fall prior to onset of winter with other snow mold controlling fungicides.
Suppression of Rhizoctonia	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® in 2 gallons of water per 1000 sq. ft.	Apply prior to onset of disease. Apply every 7 to 14 days.

## TURF TANK MIXTURES

For the effective control of summer stress complex caused by a complex of Rhizoctonia and Pythium diseases, tank-mix PHOSPHO-JET® with Fore® WP [or Protect T/O or mancozeb-containing] fungicide and apply to turf grasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms.

Product	Disease	Rate per 1000 sq. ft.	Application Program
PHOSPHO-JET® + [mancozeb-containing fungicide]*	Summer Stress Complex (Rhizoctonia and Pythium spp.)	5 to 10 fl. oz. PHOSPHO-JET® + [mancozeb-containing fungicide]*	Apply indicated quantity of product in 1 to 5 gallons of water per 1000 sq. ft. as a foliar spray. Start as a preventive spray at two-week intervals and repeat as required. Do not irrigate or mow treated areas until spray has completely dried.
	Pink Snow mold	5 to 10 oz. per 1,000 sq. ft.	Apply prior to disease development or when conditions favor disease outbreak.

\*follow product label rate.

Do not graze animals on treated areas of turf. Do not feed treated turf clippings to poultry or livestock.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### STORAGE:

Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

Nonrefillable container. Do not use or refill this container. Triple rinse container (or equivalent) promptly after emptying.

*[Use the following with containers with a capacity of 5 gallons or less:]* Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

*[Use the following with containers with a capacity greater than 5 gallons:]* Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, insuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration.

## WARRANTY AND DISCLAIMER

To the extent permitted by applicable law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Arborjet, Inc., are hereby excluded. To the extent permitted by applicable law, Arborjet, Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Arborjet, Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. To the extent permitted by applicable law, Arborjet's liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.

*[Italicized text in brackets indicates instructions, not a part of labeling.]*



# PHOSPHO-jet

[Alternate Brand Name: Eco-1 PHOS]

[For Use Against Sudden Oak Death] [in California]  
[Systemic Fungicide] [Arboriculture in Motion] [Diverse Pest Control]  
[Systemic Fungicide for Micro-Infusion]  
[Plant Resistance Activator]

Systemic fungicide for the effective control of various plant diseases including black spot or scab in apple, root rot in Avocado, Bud Rot and Nut Fall in Coconut, Root Rot in Citrus and Cucurbits, Downy Mildew in Cucurbits, Grape, Lettuce, and Onion, Anthracnose in Mango, Root and Heart Rot in Pineapple, Late Blight in Potato, Root and Collar Rot in Stonefruit, Leather Rot and Phytophthora diseases in Strawberry, Late Blight in Tomato, Downy Mildew, Phytophthora & Pythium in Ornamentals, Interiorscapes & Bedding Plants, Phytophthora and Fusarium in Conifers, Pythium in Turf, and Phytophthora and Pythium diseases associated with Stem and Canker blight (Sudden Oak Death) and General Beech Decline.

**Active Ingredients:**

Mono- and di-potassium salts of Phosphorous Acid\* .....45.8%

**Other Ingredients:** .....54.2%

**Total:** .....100.0%

\*Contains 5.17 lbs/gallon of the active ingredients, mono- and di-potassium salts of Phosphorous Acid. Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Consult [booklet] or [insert] for First Aid & Precautionary Statements

EPA Registration No. 74578-3

EPA Est. No. 74578-MA-001

Arborjet, Inc.  
99 Blueberry Hill Rd., Woburn, MA 01801  
Phone: 781-935-9070  
Fax: 781-935-9080

Net Contents:

[Lot] or Batch No.:  
[Date of Manufacture:]

## RESIDENTIAL USE

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. Hotline Number: National Poison Control, 1-800-222-1222	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

For Terrestrial Use: To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Apply this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product. For use only in home gardens, on home lawns, and on home ornamentals and related home plants.

When using PHOSPHO-JET® with Pentra-Bark™ adhere to all applicable label directions. Only use Pentra-Bark™ with basal bark or trunk spray applications.

### GENERAL APPLICATION INSTRUCTIONS

Apply PHOSPHO-JET® by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application, and bare root dip.

For foliar sprays, apply PHOSPHO-JET® with sufficient water volumes for adequate coverage of foliage, according to plant type and growth stage. To ensure good coverage, spray to wetness, but avoid run-off. Harvest when dry.

When applying PHOSPHO-JET® to plant species for the first time, spray a limited number of plants first and wait for 3 to 7 days. Then check for leaf burn (phytotoxicity).

### MIXING INSTRUCTIONS

1. Fill the spray tank with  $\frac{1}{4}$  to  $\frac{1}{2}$  of the volume of water required before adding PHOSPHO-JET®
2. Add PHOSPHO-JET® slowly to the tank and agitate
3. Fill tank with balance of water to the desired volume
4. Agitate during application

#### Conversion Table

1/8 fl. oz.	=	3/4 teaspoon (tsp.)	
1/4 fl. oz.	=	1 1/2 tsp.	
1/3 fl. oz.	=	2 tsp.	
1/2 fl. oz.	=	3 tsp.	
2/3 fl. oz.	=	4 tsp.	
3/4 fl. oz.	=	4 1/2 tsp.	
1 fl. oz.	=	2 tablespoons (Tbs.)	= 6 tsp.

**CITRUS, FRUIT, NUT AND VEGETABLE APPLICATIONS  
 APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE**

Use PHOSPHO-JET® for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, and quinces.

Disease	Application Method	Rate	Application Program
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Foliar spray	3 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply at ¼ to ½ inch green tip through first cover at 7 to 10 day intervals or according to forecasted infection events. Continue with PHOSPHO-JET® and Captan in the remaining applications. First application at open cluster. Last application at fifth cover or fruit at 2" to 2 ½" diameter. Total of 10 applications at 10 to 12 day intervals. When conditions are conducive to a black spot outbreak, apply PHOSPHO-JET® immediately. NOTE: After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
	Basal bark spray apply early spring at bud swell or at silver tip stage of growth	16 fl. oz. PHOSPHO- JET® + 16 fl. oz. of water + 1 fl. oz. Penetra- Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Penetra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present (treatment generally lasts 8 to 12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control). Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.
Root and collar rot ( <i>Phytophthora cactorum</i> ) Fire Blight ( <i>Erwinia amylovora</i> )	Foliar spray	2 ½ to 5 tsp. PHOSPHO-JET® per gallon of water	Thorough spray coverage of plant is required. Start applications when conditions favor disease development. Apply at one to two month intervals. Use the low rate on the shorter interval and the high rate on the longer interval. Under high disease pressure use higher application rate and shorter spray interval.
	Basal bark spray apply spring and fall for best results	16 fl. oz. PHOSPHO- JET® + 16 fl. oz. of water + 1 fl. oz. Penetra- Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Penetra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8 to 12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)

**ASPARAGUS**

Use PHOSPHO-JET® for effective control of crown rot & asparagus spear slime disease in asparagus crops.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime (Phytophthora spp.)	Foliar	1/3 fl. oz. PHOSPHO-JET® per gallon of water	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down (senesce). Established plantings, start applications when conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.

**AVOCADOS**

Use PHOSPHO-JET® for effective control of root rot, trunk cankers and downy mildew disease in Avocado.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora cinnamomi)	Tree injection	Skeletal trees 1st year: 1/4 fl. oz. PHOSPHO-JET® undiluted per yard of canopy diameter. Other situations: 1/8 fl. oz. PHOSPHO-JET® diluted with 1/2 fl. oz. of water per yard of canopy diameter	Inject trees at spring flush maturity. Repeat treatment in February or March. Locate drill holes in or near the trunk flare and space evenly around the circumference of the trunk. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET Air or Air hydraulic applicator to inject solution into the tree. For dilute (e.g., 1:30) solutions, use the Tree I.V. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter months, unless adequate soil moisture is available. Do not cut back the canopy of injected trees. Do not add any material, other than water, to PHOSPHO-JET® by trunk injection.
	Foliar spray	1/3 fl. oz. PHOSPHO-JET® per gallon of water	Spray to runoff at 2 to 2 1/2 gallons of spray solution per adult tree. Start applications in spring, up to 4 applications a year at two-month intervals. Ensure thorough coverage.
Canker (Phytophthora citricola)	Trunk spray	8 to 16 fl. oz. PHOSPHO-JET® with one gallon of water + 1.2 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Apply to trunk lesions using sufficient spray volume to completely wet the trunk and lesions. If lesions absent, apply to trunk from soil level to two feet up trunk. If lesions present use higher rate.
Downy mildew	Foliar spray	3/4 teaspoon per gallon of water	Spray to runoff, as required for disease control.

**BERRIES**

Use PHOSPHO-JET® for effective control of root rot, general leaf and berry diseases such as those caused by Septoria spp., and downy mildew, and for suppression of Anthracnose spp. in bush and cane berries such as, but not limited to, bingleberries, blackberries, black satin berries, blueberries, boysenberries, Cherokee blackberries, Chesterberries, Cheyenne blackberries, coryberries, cranberries, darrowberries, dewberries, Dirksen thornless berries, elderberries, Himalayaberries, huckleberries, hullberries, Lavacaberries, loganberries, lowberries, lucretiaberries, mammoth blackberries, marionberries, mulberries, nectarberries, olallieberries, Oregon evergreen berries, raspberries (red, black, hybrids/cultivars), and youngberries.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora spp.)	Foliar spray	2 to 6 tsp. PHOSPHO-JET® per gallon of water. Ensure foliage is completely wet.	New plantings: start application when new growth is 2 to 3 inches long. Established plantings start applications when cool wet conditions occur which favor disease. West of Rocky Mountains: Autumn applications, apply when conditions favor disease, repeat in 4 weeks. Spring applications, first application after bud break and repeat in 4 weeks. East of Rocky Mountains: First application spring post bud break (2 to 3 inches new growth) and repeat at 50 to 60 day intervals. Do not exceed 4 applications per growing season. For blueberries – First application in spring at pink bud and then on a regular schedule of application at two to three intervals.
General leaf and berry diseases such as those caused by Septoria spp and Anthracnose spp	Root dip	Mix a 2.5% volume/volume solution (3 fl. oz. PHOSPHO-JET® per 1 gallon of water)	Apply as pre-plant dip to the roots for 2-3 minutes. Plant within 48 hours after dipping. Mix a fresh solution daily.
Downy mildew	Foliar spray	2.5 to 4 tsp. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 3 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 intervals. Do not apply more than 6 times per growing season.  PHOSPHO-JET® is best when used in combination with conventional registered fungicides to increase the performance of the disease control program.

## BRASSICAS

Use PHOSPHO-JET® for effective control of downy mildew, damping-off, root rot, bacterial, and fungal diseases in brassicas such as, but not limited to, broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Disease	Application Method	Rate	Application Program
Root rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray	1 to 2 fl. oz. PHOSPHO-JET® per gallon of water	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
	Pre-plant seedling Treatment	2 tsp. PHOSPHO-JET® in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	
	Transplant and furrow application	3 pints PHOSPHO-JET® at planting or to newly planted seedlings by side dressing	
Downy mildew (Peronospora parasitica)	Foliar spray	2 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water California: 1/3 to 1/2 fl. oz. per gallon of water	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.
Diseases caused by Septoria, Collectotrichum, Alternaria	Foliar spray	1 to 2 fl. oz. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

## CITRUS - Mature trees

Use PHOSPHO-JET® for effective control of root rot and collar rot diseases in citrus.

Disease	Application Method	Rate	Application Program
Brown rot and root rot Phytophthora spp.	Foliar spray	1 teaspoon PHOSPHO-JET® per gallon of water	When conditions favor disease. Spray trees to run off ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees.
Root rot and collar rot (Phytophthora spp. nicotianae and Phytophthora citrophthora)	Trunk spray	8 to 16 fl. oz. PHOSPHO-JET® per gallon of water with ¼ to ½ fl. oz. Penta-Bark™ Bark Penetrating Surfactant	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high use higher rate.

Pre-harvest blue and green mold and brown rot (Phytophthora citricola)	Foliar spray	4 tsp. PHOSPHO-JET® per gallon of water	Apply 2-4 weeks prior to harvest. Ensure fruit is thoroughly covered by the spray application.
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### COCONUTS

Use PHOSPHO-JET® for effective control of bud rot and nut fall in coconuts.

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall (Phytophthora palmivora)	Injection	1/3 to 1 fl. oz. PHOSPHO-JET® per tree	Dilute PHOSPHO-JET® with water to give final injection volume of 1 fl. oz. to 2 fl. oz. of water and PHOSPHO-JET®. Inject into the trunk or root system.

### CUCURBITS

Use PHOSPHO-JET® for effective control of sudden wilt, gummy stem blight, downy mildew, Alternaria leaf blight, and bottom soft root complex, and for suppression of Anthracnose in cucurbits such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp. balsam apple, balsam pear, bitter melon, and Chinese cucumber.

Disease	Application Method	Rate	Application Program
Sudden wilt – Root and fruit rot (Phytophthora spp.)	Foliar spray	2 to 6 tsp. PHOSPHO-JET® per gallon of water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (Mycosphaerella melonis)		Apply 1 fl. oz. PHOSPHO-JET® per gallon of water (CA only)	Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Downy mildew (Pseudoperonospora cubensis)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per growing season.
Leaf diseases such as Anthracnose and Alternaria leaf blight	Foliar spray	4 to 6 Tbs. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Bottom soft rot complex	Foliar spray	4 to 5 tsp. PHOSPHO-JET® per gallon of water	Apply after fruit set and during bulking 3 times during the growing season.

## FRUITING VEGETABLES

Use PHOSPHO-JET® for effective control of damping-off, root rot, and gummy stem blight diseases, bacterial diseases, downy mildew, and Alternaria leaf blight, and for suppression of Anthracnose in eggplant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet.

Disease	Application Method	Rate	Application Program
Eggplant: Pythium and Phytophthora spp., and Gummy stem blight (Mycosphaerella melonis)	Foliar spray	Apply 1 fl. oz. PHOSPHO-JET® per gallon of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season. Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per growing season.
Peppers: Late blight and root rot (Phytophthora infestans and Phytophthora spp.)		2 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	First application at transplant or when direct seeded crops are at 2 – 4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot (Phytophthora infestans and Phytophthora spp.)		2 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water California: 3 tsp. per gallon of water	First application at transplant or when direct seeded crops are at 2 – 4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Root rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray	2.5 to 6 tsp. PHOSPHO-JET® per gallon of water	Begin application after plants are established and conditions favor disease development.
Bacterial Diseases	Pre-plant seedling treatment	1 tsp. PHOSPHO-JET® in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting.	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
	Transplant and furrow application	2.5 to 6 tsp. PHOSPHO-JET® per gallon of water at planting or to newly planted seedlings by side dressing.	For control of bacterial leaf spot of tomatoes, apply the high rate of PHOSPHO-JET® with registered bactericides.
Downy mildew	Foliar spray	2.5 to 6 tsp. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

**GRAPES**

Use PHOSPHO-JET® for effective control of root rot, downy mildew, and diseases in grapes.

Disease	Application Method	Rate	Application Program
Downy mildew (Plasmopara viticola)	Foliar spray	<p>½ to 1 fl. oz. PHOSPHO-JET® per gallon of water</p> <p>PHOSPHO-JET® is most effectively applied to control downy mildew when mixed with other registered fungicides.</p> <p>½ fl. oz. PHOSPHO-JET® per gallon of water</p>	<p>Apply at bud break with additional applications at 7 to 10 day intervals in a rotational program with other registered fungicides. Use higher rate and volume based on disease severity and density of canopy. Do not apply more than 6 times per growing season.</p> <p>For mid to late season applications: It is essential that the rate of PHOSPHO-JET® be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply PHOSPHO-JET® at times of high disease risk, especially between the time that conditions are conducive to downy mildew infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of PHOSPHO-JET® is applied to match vine growth, particularly from mid- season onwards, and especially where grapes are grown on root stock.</p>
Phytophthora and Pythium root rots	Foliar spray	½ fl. oz. PHOSPHO-JET® per gallon of water	<p>Apply to vines that have stressed root system that can lead to root rots. Mitigating factors such as nematode pressure, water logging, and compaction contribute to vine declines.</p> <p>Table Grapes: Begin application in the Spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals until flowering. Resume applications in the Fall after harvest. Do not apply more than 4 times per growing season.</p> <p>Wine and Raisin Grapes: Begin applications in the Spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals through flowering. Do not apply more than 4 times per growing season.</p>

## HERBS AND SPICES

Use PHOSPHO-JET® for effective control of downy mildew, phytophthora spp and pythium spp diseases of Herbs and Spices grown in fields, nurseries, and greenhouses. Apply PHOSPHO-JET® to plants such as, but not limited to, anise, balm, basil, chamomile, caraway, catnip, celery, chives, coriander, cumin, curry leaf, dill, fennel, marjoram, mint, nasturtium, rosemary, sage, savory, sweet bay, tarragon, thyme, and wintergreen.

Make applications before disease development and in conjunction with good horticultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray	1/2 to 1 1/8 fl. oz. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Phytophthora spp and Pythium spp	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply each gallons of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil drench	1/8 tsp. PHOSPHO-JET® per gallon of water	

## HOPS

Use PHOSPHO-JET® for effective control of downy mildew in hops.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only.	2.5 to 6 tsp. PHOSPHO-JET® per gallon of water	When conditions favor disease, apply when A. Shoots are 1/2 to 1 foot long. B. Post-training when vines are 6 feet high. C. 21 days post-application (B) D. During bloom

## LEAFY VEGETABLES

Use PHOSPHO-JET® for effective control of root rot, damping-off, downy mildew, and other fungal leaf diseases, and for suppression of Anthracnose in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, chrysanthemum, corn salad, cress, dandelion, dock, endive, fennel, lettuce, orach, parsley, purslane, radicchio, radish, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

Disease	Application Method	Rate	Application Program
Downy mildew (Bremia lactucae)	Foliar spray	1 2/3 fl. oz. PHOSPHO-JET® per gallon of water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions repeat application at 7 to 10 day intervals, if needed.

Root rots and damping off (Phytophthora and Pythium spp)	Foliar spray	1 to 1 ½ fl. oz. PHOSPHO-JET® per gallon of water	Begin application after plants are established and conditions favor disease development.
	Pre-plant application	2 tsp. PHOSPHO-JET® in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Leaf diseases such as Anthracnose (Collectotrichum spp), leaf blights (Septoria and Cercospora spp) and bacterial rots (Erwinia spp)	Foliar spray	1 ½ to 2 fl. oz. PHOSPHO-JET® per gallon of water	

### LEGUMES

Use PHOSPHO-JET® for effective control of damping-off, root rot, Fusarium, Rhizoctonia, downy mildew, and other fungal diseases, and for suppression of Anthracnose in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto beans, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	2.5 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Fusarium and Rhizoctonia	Pre-plant nursery application	2.5 tsp. PHOSPHO-JET® in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Apply at crop emergence or during periods of crop stress caused by Summer Stress Syndrome or wet conditions that favor disease development.  Begin application after plants are established and conditions favor disease development.
	Transplant and furrow application	2.5 tsp. to 2 fl. oz.. PHOSPHO-JET® in 1 gallon of water at planting or to newly planted seedlings by side dressing	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Downy mildew	Foliar spray	1 to 2 fl. oz. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per growing season.

Leaf diseases such as Anthracnose ( <i>Collectotrichum</i> spp), leaf blights ( <i>Septoria</i> and <i>Cercospora</i> spp), and bacterial rots ( <i>Erwinia</i> spp)	Foliar spray	4 to 6 Tbs. PHOSPHO-JET® per gallon of water	<p>Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at first onset of disease. Repeat application at 7-10 day intervals. Do not apply more than 6 times per growing season.</p>
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### MANGOS

Use PHOSPHO-JET® for effective control of anthracnose in mangos.

Disease	Application Method	Rate	Application Program
Anthracnose ( <i>Colletotrichum gloeosporoides</i> )	Foliar spray	2 tsp. PHOSPHO-JET® per gallon of water	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of run-off.

### MICELLANEOUS CROPS

Use PHOSPHO-JET® for effective control of damping-off, root rot, downy mildew, and other bacterial diseases in coffee, papaya, and persimmon.

Disease	Application Method	Rate	Application Program
Phytophthora and <i>Pythium</i> spp  Bacterial and leaf diseases such as coffee berry disease ( <i>Collectotrichum</i> spp), Anthracnose ( <i>Collectotrichum</i> spp), and various leaf spots ( <i>Septoria</i> and <i>Cercospora</i> spp)	Foliar spray	2.5 to 4 tsp. PHOSPHO-JET® per gallon of water	<p>Begin application after plants are established and conditions favor disease development.</p> <p>Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.</p>
	Root Dip	Mix a 0.5% volume/volume solution (4 tsp. PHOSPHO-JET® per gallon of water)	Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within 48 hours. Mix a fresh solution daily.
Downy mildew	Foliar spray	2.5 to 6 tsp. PHOSPHO-JET® gallon of water	<p>Low Disease Pressure: Apply lower rate at the first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.</p>
<i>Pseudomonas garcae</i>	Foliar spray Ground	Mix a 0.50% volume/volume solution (4 tsp. PHOSPHO-JET® per gallon of water)	Apply prior to onset of disease. Apply spray to saturation or runoff.

**NONGRASS ANIMAL FEED**

Use PHOSPHO-JET® for effective control of damping-off and root rot diseases in forage crops such as, but not limited to, alfalfa, clover, and vetch.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	3 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

**OKRA**

Use PHOSPHO-JET® for effective control of damping-off and root rot diseases in okra.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	3 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

**ONIONS / GARLIC / SHALLOTS / LEEKS**

Use PHOSPHO-JET® for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew (Peronospora destructor)	Foliar spray	4 tsp. PHOSPHO-JET® per gallon of water	As a regular preventative control program or when disease first appears.

**PEANUTS**

Use PHOSPHO-JET® for effective control of damping-off and root rot disease and for suppression of Anthracnose in peanuts.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp.	Foliar spray	2 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	Apply at 14-day intervals, as necessary. Ensure thorough coverage.
Root rots, pod rots, damping off, wilt (Phytophthora and Pythium spp)	Foliar spray	4 to 5 tsp. PHOSPHO-JET® per gallon of water	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.
Leaf and crown diseases, Anthracnose (Collectothricum)	Transplant and furrow application	3 to 6 tsp. PHOSPHO-JET® in 1 gallon of water at planting or to newly planted seedlings by side dressing	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

**PINEAPPLES**

Use PHOSPHO-JET® for effective control of Phytophthora root and heart rot diseases in pineapples.

Disease	Application Method	Rate	Application Program
Phytophthora root and heart rot (Phytophthora cinnamomi and parasitica spp.)	Foliar spray	1 2/3 fl. oz. to 3 1/3 fl. oz. PHOSPHO-JET® oz. per gallon of water	Apply to tops, 14 days prior to harvest of planting material. Established plantings when conditions favor disease. Apply at 90 day intervals. Ensure thorough coverage of plants.
	Pre-plant dip	2 tsp. PHOSPHO-JET® per gallon of water	
	Foliar spray	2/3 fl. oz. PHOSPHO-JET® per gallon of water	

**ROOT AND TUBER VEGETABLES**

Use PHOSPHO-JET® for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and pythium leak, and downy mildew in potatoes, sweet potatoes, and yams.

Disease	Application Method	Rate	Application Program
Ginseng: Foliar and root rot (Phytophthora cactorum)	Foliar spray	4 ½ tsp. PHOSPHO-JET® per gallon of water	In cool wet conditions that favor Phytophthora. Apply at 7 day intervals. Do not exceed a total of 8 applications per season.
Carrots: Phytophthora and Pythium spp.	Foliar spray	2 tsp. to 2 fl. oz. PHOSPHO-JET® per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak (Phytophthora erythroseptica and Pythium spp.)	In-furrow spray	2.5 to 6 tsp. PHOSPHO-JET® per gallon of water	Apply in a band spray directly over top of potato seed just before row is closed.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythro-septica and Pythium spp.)	Foliar spray	2/3 to 3 tsp. PHOSPHO-JET® per gallon of water	Apply at 5 to 14 day intervals subject to disease incidence.
Downy mildew	Foliar spray	1 to 2 fl. oz. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply the lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.

## STONE FRUIT

Use PHOSPHO-JET® for effective control of root, collar rot and almond pruning wound, and various canker disease in stone fruit such as, but not limited to, apricots, sweet and tart cherries, cherries, nectarines, peaches, plums, and fresh prunes.

Disease	Application Method	Rate	Application Program
Root and collar rot (Phytophthora spp.)	Foliar spray	1/3 fl. oz. PHOSPHO-JET® per gallon of water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post-harvest Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
	Basal bark spray apply spring and fall for best results	16 fl. oz. PHOSPHO-JET® + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	
Almond pruning – wound cankers (Phytophthora syringae)	Paint or spray	1/3 to 3/4 fl. oz. PHOSPHO-JET® per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate.
Suppression of armillaria root rot (Armillaria luteobublina)	Basal bark spray	1.5 quarts to 2 quarts PHOSPHO-JET® + 2 quarts water + 1% Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.

## STRAWBERRIES

Use PHOSPHO-JET® for effective control of leather rot, red stele and Phytophthora, foliar and bacterial disease in strawberries.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp (red steele, leather Rot, and root rot)  Suppression of Rhizoctonia	Pre-planting dip	1/3 fl. oz. PHOSPHO-JET® per gallon of water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	2 to 6 tsp. PHOSPHO-JET® per gallon of water	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident.
	Transplant and furrow application	3 tsp. PHOSPHO-JET® in 1 gallon of water at planting or to newly planted seedlings by side	Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties use higher rates and

		dressing	shorter spray intervals.  For leather rot, apply at 10% bloom and early fruit set, then 1 to 2 week intervals as required for disease control. In high disease situations, use higher rate and shorter spray intervals.  Grey mold and Anthracnose suppression using PHOSPHO-JET® requires use of high application rates and is most effective when tank mixed with other registered fungicides.
Phytophthora spp	Dip	Mix a 0.25% volume/volume solution (1/3 fl. oz. PHOSPHO-JET® with 1 gallon of water	Dip runners in the solution for 1 to 2 minutes. Plant within 48 hours. Mix a fresh solution daily.
Red stele (Phytophthora fragariae)	Pre-planting dip	1/3 fl. oz. PHOSPHO-JET® per gallon of water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	2 to 6 tsp. PHOSPHO-JET® per gallon of water 2 to 3 tsp. PHOSPHO-JET® per gallon of water (CA only)	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident. Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties use higher rates and shorter spray intervals.
Leather rot (Phytophthora cactorum)	Foliar spray	2 to 6 tsp. PHOSPHO-JET® per gallon of water 2 to 3 tsp. PHOSPHO-JET® per gallon of water (CA only)	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher rates and shorter spray intervals.

### TREE NUTS

Use PHOSPHO-JET® for effective control of root and collar rot, and almond pruning-wound canker disease in tree nuts such as, but not limited to, almonds, beech nuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, hazelnuts, hickory nuts, macadamia nuts, pecans, pistachios, and walnuts.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot (Phytophthora spp.)	Foliar	2.5 tsp. PHOSPHO-JET® per gallon of water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post-harvest
Other than macadamia nuts: Almond pruning – wound canker (Phytophthora syringae)	Paint or spray	4 ½ tsp. PHOSPHO-JET® per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight	Foliar spray	3 tsp. PHOSPHO-JET® per gallon of	Apply when disease is first seen and reapply at 3 week intervals.

(Phytophthora spp.)		water	Spray to the point of run-off.
Root rot, crown rot, trunk cankers, foliar blights (Phytophthora and Pythium spp)	Foliar spray	4 to 5 tsp. PHOSPHO-JET® per gallon of water	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 3 month intervals. Do not apply more than 4 times per growing season.  High Disease Pressure: Apply higher rate at monthly intervals. Do not apply more than 4 times per growing season.
Foliar bacterial and fungal disease, Anthracnose (Collectotrichum), hull rot (Monilla spp), flower diseases (Cladosporium spp), Alternaria leaf spots (Alternaria spp), and raceme blight (Phytophthora) in Macadamia	Root dip	Mix a 0.5% volume/volume solution (4 tsp. PHOSPHO-JET® in 1 gallon of water)	Dip roots in the solution for 30 seconds. Plant within 48 hours. Mix a fresh solution daily.
Pecan scab	Foliar spray	1 ½ fl. oz. PHOSPHO-JET® per gallon of water	Apply preventatively at 21 to 30 day intervals.
Pruning wound, crown and trunk cankers (Phytophthora spp)	Trunk spray	1 ½ quarts PHOSPHO-JET® + 2 quarts of water + 1% Penetra-Bark Bark Penetrating Surfactant	Apply higher rate when lesions are present. Clean wound sites and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. Apply to the trunk from the soil line to 5 feet up the trunk. Apply one time in the Spring, Summer, and Fall.
Downy mildew (Phytophthora and Peronspora spp)	Foliar spray	2.5 to 4 tsp. PHOSPHO-JET® per gallon of water	Low Disease Pressure: Apply lower rate at first onset disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Tree cankers	Basal bark spray	1 ½ to 2 quarts PHOSPHO-JET® + 2 quarts of water + 1% Penetra-Bark Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Penetra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.

1000 Cankers of Walnut, Geosmithia morbida on both Black and English Walnut	Foliar spray	2.5 to 3 Tbs. PHOSPHO-JET® per gallon of water. Spray until run off.	Spray every 60 days from spring through fall. Use in combination with an insecticide that controls Walnut Twig Beetle, Pityophthorous juglandis maximum treatment 6 times per year.
	Basal Bark Spray	Spray apply a solution of 32 oz. PHOSPHO-JET® and 48 oz. water with 2 oz. Pentra-Bark to 18 DBH inches of tree trunk.	Spray apply to circumference of tree trunk until saturation runoff from ground level to 6 feet up or to first scaffold limb. Apply spring and fall. (DBH is measured diameter 4 feet above ground level).

### LANDSCAPE APPLICATIONS

Use PHOSPHO-JET® for effective control of Phytophthora and Pythium spp. and other diseases associated with Sudden Oak Death, Beech Decline, and general tree decline syndromes, and for suppression of Anthracnose and Verticillium wilt. Apply PHOSPHO-JET® to trees such as, but not limited to, Ash, Azalea, Beech, Black Locust, Buckeye, Catalpa, Cedar, Cherry-Stonefruits, Chestnut, Coffee Tree, Crab Apple, Cork Tree, Dogwood-All, Elm, Fir, Hawthorne, Honey Locust, Juniper, Lilac, Linden, Magnolia, Maples-All, Pine, Oaks-All (Coastal, Live, Shreve, Black, Canyon), Olives, Ornamental Pear, Plum, Pyracantha, Redbud, Smoke Tree, Sumac, Sweet Birch, Sweet Gum, Sycamore, Viburnum, White Pine, White Cedar, and Willow.

Make applications before disease development and in conjunction with good horticultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp., and Phytophthora ramorum	Injection	11 fl. oz. PHOSPHO-JET® per 21 fl. oz. of water (32 fl. oz. of solution) will treat 48 diameter inches of tree trunk. Apply 1/3 fl. oz. per injection every 6" around the trunk of the tree OR ½ tsp. PHOSPHO-JET® per tsp. of water per injection every 6" around the trunk of the tree.	32 fluid oz. will treat up to 4, 12" diameter trees. Apply 1 injection every 6 inches of trunk circumference. For example, a 12" DBH tree (36" circumference) will receive 6 injections (36" circumference/6"= 6). Apply 1/3 fl. oz. (10 mLs) per injection site. Locate drill holes in or near the base of the tree. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET Air or Tree I.V. to inject solution into the tree.

	Basal bark spray (all other tree species) Apply spring and fall for best results or anytime active growth occurs. Best for thin bark trees such as maples, lindens, sycamores, and dogwoods.	16 fl. oz. PHOSPHO-JET® + 16 fl. oz. of water + 1.6 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray (Pine)	16 fl. oz. PHOSPHO-JET® + 32 fl. oz. water + 0.5 fl. oz. of Pentra-Bark Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
Fusarium subglutinans (Pine Pitch Canker) and Gnomonia platani (Sycamore Anthracnose)	Injection	2/3 fl. oz. (20 mL) PHOSPHO-JET + 32 fl. oz. of water per 10" of tree diameter (30" tree circumference) of PHOSPHO-JET®	Apply 1 injection every 6 inches of trunk circumference. Locate drill holes in or near the base of the tree. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET Air or Tree I.V. to inject solution into the tree. Trees should be at least 10" diameter at breast height.
Apple black spot and scab (Venturia inaequalis), and suppression of Anthracnose and Fire Blight	Basal bark spray apply in early spring at bud swell or silver tip stage of growth	16 fl. oz. PHOSPHO-JET® + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either the first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Can be used as a preventative or curative application for trees listed. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices. For severe infestation of anthracnose, make a fall (at leaf senesce) and spring (bud swell to green tip) application for large trees.
	Foliar Spray	Use 2 to 3 tsp. PHOSPHO-JET® per gallon of water.	
Suppression of Anthracnose	Foliar spray	3 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply at pre bloom (bud swell or green tip stage) with a supplemental application 14 days later with PHOSPHO-JET® or other

			fungicide compound with efficacy on Anthracnose.
Suppression of Anthracnose	Basal bark spray apply early spring at bud swell until green tip stage of growth	16 fl. oz. PHOSPHO-JET® + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present.- For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Anthracnose, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.
Suppression of Verticillium wilt	Foliar Spray	3 to 4 tsp. PHOSPHO-JET® per gallon of water	For trees previously identified with infections apply first application pre-bloom. Repeat applications between 21 to 30 days.
	Basal Bark spray	1 ½ to 2 quarts PHOSPHO-JET + 2 quarts water + 2 fl. oz. Pentra-Bark Bark Penetrating Surfactant	Spray a combination of PHOSPHO-JET® and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 24 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Verticillium wilt, make a fall application prior to leaf senesce and a spring application for best results. For trees less than 24 inches DBH, make an early spring application.

### ORNAMENTAL APPLICATIONS

Use PHOSPHO-JET® for effective control of Bacterial blight, Downy mildew, Phytophthora spp. (root rot) and Pythium spp. (damping-off) diseases, and Sudden Oak Death, and for suppression of Anthracnose of Ornamentals in landscapes and interiorscapes. Apply PHOSPHO-JET® to plants such as, but not limited to, Aglaonema, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, landscape, mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good horticultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Bacterial blight (Xanthomonas campestris) pothovars: dieffenbachiae, fici	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days Repeat as required.

hederae and syngonli			
Black spot (Diplocarpon spp)	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply uniformly to foliage preventatively or at first sign of disease.
Downy mildew	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply uniformly to foliage at disease onset and repeat applications every 14 days. Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Phytophthora spp. (root rot), Phytophthora ramorum, and Pythium spp. (damping-off)	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply uniformly to foliage to point of runoff. Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	Mix a 0.5% to 1.0% volume/volume solution (½ to 6 ½ fl. oz. PHOSPHO-JET® in 1 to 5 gallons of water) 1/8 tsp. per gallon of water	Apply uniformly to soil at base of plant and surrounding soil. Apply each 25 gallons of solution to an area of 100 sq. feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1 to 2 pints PHOSPHO-JET® per cubic yard of soil	Just prior to potting mix 1 to 2 pts of PHOSPHO-JET® into each cubic yard of growing media. If disease pressure is high, make application by foliar spray or soil drench.
	Bare rooted dipping of transplants	2 tsp. PHOSPHO-JET® per gallon of water	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.
Suppression of Anthracnose	Foliar spray	1 ½ fl. oz. PHOSPHO-JET® per gallon of water	Apply prior to onset of disease. Apply spray to saturation or runoff.

### RESIDENTIAL NURSERY, GREENHOUSE, AND BEDDING PLANTS

Use PHOSPHO-JET® for effective control of Downy mildew, Phytophthora spp. (root rot) and Pythium spp. (damping off) diseases of BEDDING PLANTS outdoors and in interiorscapes. Apply PHOSPHO-JET® to plants such as, but not limited to, Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvite, Artemesia, Aster, Azaleas, Begonia, Baby's Breath, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothos, Cissus, Chrysanthemum, Columbine, Coleus, Cotoneaster, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly, Juniper, Lavender, Leather Leaf Fern, Marigold, Moterey Pink, Pieris, Peperomia, Petunia, Philodendron, Pansy, Phlox, Pinks, Pittosporum, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rosemary, Salvia, Schefflera, Sedium, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, Verbena, White Cedar, White Pine, Zinnia, and Zygocactus. PHOSPHO-JET® may also be used for Vegetable Transplants grown in Greenhouse, Lathouse, or Shade house sites.

Make applications to outdoor or indoor plants before disease development and in conjunction with good horticultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. When applying to indoor plants, do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Downy Mildew	Foliar Spray	1/2 to 1 1/8 fl. oz.	Apply spray to thoroughly wet all foliage.

		PHOSPHO-JET® per gallon of water	Application intervals: 14 to 21 days. Repeat as required.
Phytophthora spp. (Root rot) and Pythium spp. (damping off)	Foliar Spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 500 gallons of spray solution per acre.
	Soil drench	1/8 tsp. PHOSPHO-JET® per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
Phytophthora spp.* (root rot)	Foliar spray	1/4 tsp. PHOSPHO-JET® per 100 sq. ft.	Apply spray in 1 pint of water per 100 sq. ft.
	Hand gun	2 quarts PHOSPHO-JET® per 100 gallons of water	Apply spray to thoroughly wet all foliage.

\* Lavender applications.

### CONIFERS

Apply PHOSPHO-JET® in conjunction with good horticultural management practices for effective control of root rot (Phytophthora spp.) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to CONIFERS that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
Phytophthora spp.	Foliar spray	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	2 to 4 tsp. PHOSPHO-JET® per gallon of water	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	2 tsp. PHOSPHO-JET® per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray apply any time active growth occurs	16 fl. oz. PHOSPHO-JET® + 32 fl. oz. of water + 0.5 fl. oz. of Penetra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.

Fusarium subglutinans (Pine Pitch Canker)	Injection	2/3 fl. oz. (20 mL) PHOSPHO-JET® + 32 fl. oz. of water per 10" of tree diameter (30" tree circumference)	Apply 1 injection every 6 inches of trunk circumference. Locate drill holes in or near the base of the tree. Use 7/32" (5 mm) for STINGER Tip, 9/32" (7 mm) for the #3 Arborplug™ or 3/8" (9 mm) (for #4 Arborplug™) dia. drill bit; drill into sapwood a minimum depth of 5/8" (15 mm) to maximum of 2" (5 cm) at a right angle to the trunk. Using a sharp, clean drill bit work around the tree trunk. Make injections with applicators that maintain positive pressure such as the QUIK-JET® Air or Tree I.V. to inject solution into the tree. Trees should be at least 10" diameter at breast height.
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### TURF AND/OR HOME LAWNS

Use PHOSPHO-JET® for the effective control of Rhizoctonia, Pythium and damping-off diseases, and for suppression of Anthracnose of turf or lawngrasses. When conditions favor disease, begin preventive applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
Pythium	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® per 1000 sq. ft.	Apply indicated quantity of product in 1 to 5 gallons of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.
Suppression of Anthracnose	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® per 1000 sq. ft.	Apply indicated quantity of PHOSPHO-JET® in 5 gallons of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Apply prior to onset of disease. Apply every 7 to 14 days in a fungicide rotational program. Do not irrigate or mow treated areas until spray has completely dried.
Rhizoctonia	Foliar spray	5 to 10 fl. oz. PHOSPHO-JET® per 1000 sq. ft.	Apply prior to onset of disease. Apply every 7 to 14 days.

Do not graze animals on treated areas of turf lawn. Do not feed treated turf lawn clippings to poultry or livestock.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### STORAGE:

Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

### PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Non Refillable container. Do use or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP (1-800-253-2687) for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY AND DISCLAIMER

To the extent permitted by applicable law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Arborjet, Inc., are hereby excluded. To the extent permitted by applicable law, Arborjet, Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Arborjet, Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. To the extent permitted by applicable law, Arborjet's liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.